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(54) Title: METHOD OF PROCESSING SULFUR-CONTAINING MATERIALS DERIVED FROM FLUE GAS DESULFURIZATION OR OTHER SOURCES (57) Abstract <p>A method and apparatus for processing sulfur-containing material derived from sulfur-containing, carbon-containing fuel or gaseous combustion product of sulfur-containing, carbon-containing fuel. A calcium sulfide-containing mixture derived from the source is provided by reacting sulfur-containing material in the source with a calcium-containing material so as to produce the calcium sulfide-containing mixture further containing impurities. A majority of the calcium sulfide from the calcium sulfide-containing mixture or other source of calcium sulfide is leached in a first aqueous solution containing hydrogen sulfide in an amount sufficient to dissolve the majority of the calcium sulfide in the first aqueous solution, so as to form a second solution containing calcium hydrosulfide. The second solution containing the calcium hydrosulfide is separated from the impurities, and calcium carbonate or calcium hydroxide is precipitated from the second solution.</p>		

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